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54 **Automated intelligent monitoring system.**

57 The invention relates to an automated system for monitoring wildlife auditory data and recording same for subsequent analysis and identification. The system comprises one or more microphones (8) coupled to a recording apparatus (10) for recording wildlife vocalizations in digital format. The resultant recorded data is preprocessed, segmented, and analyzed by means of a neural network to identify the respective species. The system minimizes the need for human intervention and subjective interpretation of the recorded sounds.

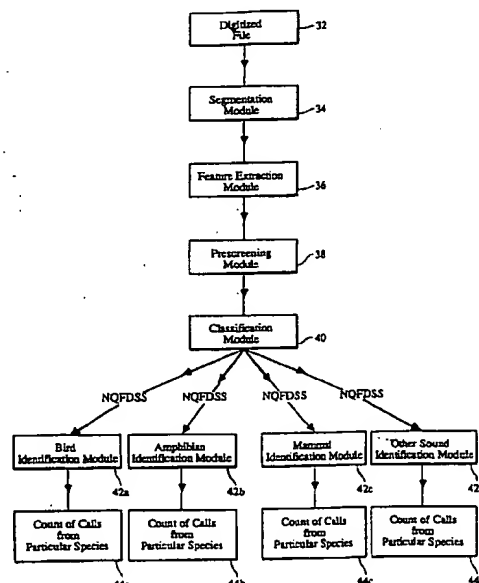


FIGURE 3

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 5)
E	CA-A-2 089 597 (BAIN) * page 1 - page 2 * ---	1	G10L3/00 G10L5/06 A01M31/00
X	SIGNAL PROCESSING V. THEORIES AND APPLICATIONS. PROCEEDINGS OF THE FIFTH EUROPEAN SIGNAL PROCESSING CONFERENCE, EUSIPCO 90, vol.3, 1990, BARCELONA, ES pages 1643 - 1646 TROUILHET ET AL. 'Spectral signature recognition with a view to counting acoustic events' * paragraph 1-2 * ---	1	
X	US-A-4 965 552 (PRICE ET AL.) * column 1 - column 2, line 35 * ---	1,2,5	
A	US-A-4 895 025 (BETTS) * column 1, line 12 - column 2, line 38 * ---	1,2,5	
A	INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH AND SIGNAL PROCESSING 92, vol.2, 23 March 1992, SAN FRANCISCO, CA, US pages 189 - 192 SIU ET AL. 'An unsupervised, sequential learning algorithm for the segmentation of speech waveforms with multiple speakers' * paragraph 2 4 * ---	16	TECHNICAL FIELDS SEARCHED (Int. Cl. 5) G10L A01M
A	INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH AND SIGNAL PROCESSING 92, vol.2, 23 March 1992, SAN FRANCISCO, CA, US pages 169 - 172 CHANG 'Augmented phonetic map for voice verification' * paragraph 4.4 * --- -/--	18-20	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 25 January 1995	Examiner Lange, J
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons</p> <p>* : member of the same patent family, corresponding document</p>			

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Application Number
EP 94 30 4014

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E	CA-A-2 089 597 (BAIN) * page 1 - page 2 * ---	1	G10L3/00 G10L5/06 A01M31/00
X	SIGNAL PROCESSING V. THEORIES AND APPLICATIONS. PROCEEDINGS OF THE FIFTH EUROPEAN SIGNAL PROCESSING CONFERENCE, EUSIPCO 90, vol.3, 1990, BARCELONA, ES pages 1643 - 1646 TROUILHET ET AL. 'Spectral signature recognition with a view to counting acoustic events' * paragraph 1-2 * ---	1	
X	US-A-4 965 552 (PRICE ET AL.) * column 1 - column 2, line 35 * ---	1,2,5	
A	US-A-4 895 025 (BETTS) * column 1, line 12 - column 2, line 38 * ---	1,2,5	
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A	IEEE INTERNATIONAL JOINT CONFERENCE ON NEURAL NETWORKS 91, vol.3, 18 November 1991, SINGAPORE pages 2752 - 2756 SUN ET AL. 'Some key factors in speaker recognition using neural network approach' * page 2753 - page 2755 * -----	18-22	
			TECHNICAL FIELDS SEARCHED (Int.Cl.5)
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			TECHNICAL FIELDS SEARCHED (Int.Cl.5)
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